Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

PRE-MEASUREMENT SHEETS

"SECOND AND Final BILL"

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

(1)

Detailed Measurements

Measurement Recorded On: 05-08-2021

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) with all lead and lift and as per the direction of Engineer in charge						
	2ND BILL						
	Manjunatha Kids Clinic Rd						
	Ch:0.00m to 30.00m	1	13.00	1.65		21.45	
	Ch:30.00m to 60.00m	1	18.00	1.65		29.70	
	Ch:60.00m to 90.00m	1	16.20	1.65		26.73	
	Ch:90.00m to 105.50m	1	4.50	1.65		7.43	
	Amco Layout						
	K M Narayanappa house Road						
	Ch:0.00m to 30.00m	1	14.00	1.65		23.10	
	Ch:30.00m to 60.00m	1	19.00	1.65		31.35	
	Ch:60.00m to 90.00m	1	21.00	1.65		34.65	
	Ch:90.00m to 103.50m	1	4.50	1.65		7.43	
	Venkateshwara house road						
	Ch:0.00m to 30.00m	1	12.20	1.65		20.13	
	Ch:30.00m to 60.00m	1	21.00	1.65		34.65	
	Ch:60.00m to 90.00m	1	15.50	1.65		25.58	
	Ch:90.00m to 98.70m	1	2.60	1.65		4.29	
	NTI Layout						
	Vinayaka house Rd						
	Ch:0.00m to 30.00m	1	11.40	1.65		18.81	
	Ch:30.00m to 60.00m	1	18.20	1.65		30.03	
	Ch:60.00m to 90.00m	1	15.20	1.65		25.08	
	Ch:90.00m to 120.00m	1	12.20	1.65		20.13	
	Ch:120.00m to 150.00m	1	16.00	1.65		26.40	
	Ch:150.00m to 171.40m	1	9.20	1.65		15.18	
	Shanthi Nivas Road						
	Ch:0.00m to 30.00m	1	16.30	1.65		26.90	
	Ch:30.00m to 60.00m	1	14.30	1.65		23.60	
	Ch:60.00m to 69.60m	1	2.50	1.65		4.13	
	Ch:69.60m to 73.20m	1	1.50	1.65		2.48	
	Rajeev Gandhi Nagara						
	SLN Annugraha House road						
	Ch:0.00m to 30.00m	1	18.00	1.65		29.70	
	Ch:30.00m to 60.00m	1	9.80	1.65		16.17	
	Ch:60.00m to 90.00m	1	12.00	1.65		19.80	

Contractor

SILICON CONSULTING ENGINEERS Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Asst. Exec. Engineer

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	Description of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch 90.00m to 120.00m	1	21.00	1.65		34.65	
	Ch 120.00m to 150.00m	1	10.00	1.65		16.50	
	Ch 150.00m to 180.00m	1	17.00	1.65		28.05	
	Ch 180.00m to 209.90m	1	9.00	1.65		14.85	
					Present Qty	**618.92**	**Sqm**

(2)

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Executive Engineer
Nagar, Sub-division,
L, BBMP, Bangalore

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

(3)

Detailed Measurements

Measurement Recorded On: 11-01-2021

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all lead and lift and as per the direction of Engineer in charge						
	2ND BILL						
	Manjunatha Kids Clinic Rd						
	Ch:0.00m to 30.00m	1	30.00	0.60	0.45	8.10	
	Ch:30.00m to 60.00m	1	30.00	0.60	0.45	8.10	
	Ch:60.00m to 90.00m	1	30.00	0.60	0.45	8.10	
	Ch:90.00m to 105.50m	1	15.50	0.60	0.45	4.19	
	Amco Layout						
	K M Narayanappa house Road						
	Ch:0.00m to 30.00m	1	30.00	0.52	0.50	7.80	
	Ch:30.00m to 60.00m	1	30.00	0.52	0.50	7.80	
	Ch:60.00m to 90.00m	1	30.00	0.52	0.50	7.80	
	Ch:90.00m to 103.50m	1	15.50	0.52	0.55	4.43	
	Venkateshwara house road						
	Ch:0.00m to 30.00m	1	30.00	0.60	0.45	8.10	
	Ch:30.00m to 60.00m	1	30.00	0.60	0.45	8.10	
	Ch:60.00m to 90.00m	1	30.00	0.60	0.45	8.10	
	Ch:90.00m to 98.70m	1	15.50	0.60	0.45	4.19	
	NTI Layout						
	Vinayaka house Rd						
	Ch:0.00m to 30.00m	1	30.00	0.60	0.45	8.10	
	Ch:30.00m to 60.00m	1	30.00	0.60	0.45	8.10	
	Ch:60.00m to 90.00m	1	30.00	0.60	0.45	8.10	
	Ch:90.00m to 120.00m	1	30.00	0.60	0.45	8.10	
	Ch:120.00m to 150.00m	1	30.00	0.60	0.45	8.10	
	Ch:150.00m to 171.40m	1	21.40	0.60	0.45	5.78	
	Shanthi Nivas Road						
	Ch:0.00m to 30.00m	1	30.00	0.45	0.45	6.08	
	Ch:30.00m to 60.00m	1	30.00	0.45	0.45	6.08	
	Ch:60.00m to 69.60m	1	9.60	0.45	0.45	1.94	
	Ch:69.60m to 73.20m	1	3.60	0.45	0.45	0.73	
	Rajeev Gandhi Nagara						
	SLN Annugraha House road						

Contractor

Executive Engineer
Nagar, Sub-division,
DL, BBMP, Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru-92

Asst. Exec. Engineer

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Item	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:0.00m to 30.00m	1	30.00	0.60	0.55	9.90	
	Ch:30.00m to 60.00m	1	30.00	0.60	0.55	9.90	
	Ch:60.00m to 90.00m	1	30.00	0.60	0.55	9.90	
	Ch:90.00m to 120.00m	1	30.00	0.60	0.55	9.90	
	Ch:120.00m to 150.00m	1	30.00	0.60	0.55	9.90	
	Ch:150.00m to 180.00m	1	30.00	0.60	0.55	9.90	
	Ch:180.00m to 209.90m	1	29.90	0.60	0.55	9.87	
					Present Qty	**215.17**	**Cum**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 18-01-2021

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete with all lead and lift and as per the direction of Engineer in charge						
	2ND BILL						
	Manjunatha Kids Clinic Rd						
	Ch:0.00m to 30.00m	1	2.00	1.65		3.30	
	Ch:30.00m to 60.00m	1	1.50	1.65		2.48	
	Ch:60.00m to 90.00m	1	2.80	1.65		4.62	
	Ch:90.00m to 105.50m	1	1.20	1.65		1.98	
	Amco Layout						
	K M Narayanappa house Road						
	Ch:0.00m to 30.00m	1	2.00	1.65		3.30	
	Ch:30.00m to 60.00m	1	1.50	1.65		2.48	
	Ch:60.00m to 90.00m	1	1.80	1.65		2.97	
	Ch:90.00m to 103.50m	1	2.10	1.65		3.47	
	Venkateshwara house road						
	Ch:0.00m to 30.00m	1	2.20	1.65		3.63	
	Ch:30.00m to 60.00m	1	2.80	1.65		4.62	
	Ch:60.00m to 90.00m	1	2.10	1.65		3.47	
	Ch:90.00m to 98.70m	1	1.60	1.65		2.64	
	NTI Layout						
	Vinayaka house Rd						
	Ch:0.00m to 30.00m	1	3.00	1.65		4.95	
	Ch:30.00m to 60.00m	1	2.10	1.65		3.47	
	Ch:60.00m to 90.00m	1	1.80	1.65		2.97	
	Ch:90.00m to 120.00m	1	2.60	1.65		4.29	
	Ch:120.00m to 150.00m	1	2.10	1.65		3.47	
	Ch:150.00m to 171.40m	1	1.50	1.65		2.48	
					Present Qty	**60.56**	**Sqm**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS

Executive Engineer
lagar, Sub-division,
, BBMP, Bangalore

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 04-01-2024

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
8	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.						
	2ND BILL						
	Manjunatha Kids Clinic Rd						
	Tata Nagara						
	Manjunatha Kids Clinic Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.30 + 5.60) / 2	0.35	62.48	
	Ch:30.00m to 60.00m	1	30.00	(5.60 + 4.60) / 2	0.35	53.55	
	Ch:60.00m to 90.00m	1	30.00	(4.60 + 5.30) / 2	0.35	51.98	
	Ch:90.00m to 105.50m	1	15.50	(5.30 + 5.10) / 2	0.35	28.21	
	Amco Layout						
	K M Narayanappa house Road						
	Ch:0.00m to 30.00m	1	30.00	(0.50 + 0.70) / 2	0.35	6.30	
	Ch:30.00m to 60.00m	1	30.00	(0.70 + 0.80) / 2	0.35	7.88	
	Ch:60.00m to 90.00m	1	30.00	(0.80 + 0.60) / 2	0.35	7.35	
	Ch:90.00m to 103.50m	1	13.50	(0.60 + 0.50) / 2	0.35	2.60	
	Venkateshwara house road						
	Ch:0.00m to 30.00m	1	30.00	(0.90 + 0.60) / 2	0.35	7.88	
	Ch:30.00m to 60.00m	1	30.00	(0.60 + 0.70) / 2	0.35	6.83	
	Ch:60.00m to 90.00m	1	30.00	(0.70 + 0.80) / 2	0.35	7.88	

Contractive Engineer
Nagar, Sub-division,
L, BBMP, Bangalore

Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike

Asst. Exec. Engineer

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m	Discription of Item	No	Length	Breadth			Depth	Qty	Unit
	Ch:90.00m to 98.70m	1	8.70	0.80	+ 2	0.70	0.35	2.28	
	NTI Layout								
	Vinayaka house Rd								
	Ch:0.00m to 30.00m	1	30.00	6.10	+ 2	7.10	0.35	69.30	
	Ch:30.00m to 60.00m	1	30.00	7.10	+ 2	7.00	0.35	74.03	
	Ch:60.00m to 90.00m	1	30.00	7.00	+ 2	7.10	0.35	74.03	
	Ch:90.00m to 120.00m	1	30.00	7.10	+ 2	7.30	0.35	75.60	
	Ch:120.00m to 150.00m	1	30.00	7.30	+ 2	6.80	0.35	74.03	
	Ch:150.00m to 171.40m	1	21.40	6.80	+ 2	6.10	0.35	48.31	
	Shanthi Nivas Road								
	Ch:0.00m to 30.00m	1	30.00	1.00	+ 2	1.20	0.35	11.55	
	Rajeev Gandhi Nagara								
	SLN Annugraha House road								
	Ch:0.00m to 30.00m	1	30.00	0.70	+ 2	0.80	0.30	6.75	
	Ch:30.00m to 60.00m	1	30.00	0.80	+ 2	0.75	0.30	6.98	
	Ch:60.00m to 90.00m	1	30.00	0.75	+ 2	0.80	0.30	6.98	
	Ch:90.00m to 120.00m	1	30.00	0.80	+ 2	0.75	0.30	6.98	
	Ch:120.00m to 150.00m	1	30.00	0.75	+ 2	0.90	0.30	7.43	
	Ch:150.00m to 180.00m	1	30.00	0.90	+ 2	0.90	0.30	8.10	
	Ch:180.00m to 209.90m	1	29.90	0.90	+ 2	1.30	0.30	9.87	
	Vasudha Heights Appartment								
	Ch:0.00m to 30.00m	1	30.00	0.60	+ 2	0.80	0.30	6.30	
	Ch:30.00m to 60.00m	1	30.00	0.80	+ 2	0.50	0.30	5.85	

Contractor

Executive Engineer
agar, Sub-division,
BBMP, Bangalore

Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Asst. Exec. Engineer

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Sl. No	Discription of Item	No	Length	Breadth			Depth	Qty	Unit
	Ch:60.00m to 90.00m	1	30.00	0.50 + 0.35 / 2			0.30	3.83	
	Ch:90.00m to 120.00m	1	30.00	0.35 + 0.35 / 2			0.30	3.15	
	Ch:120.00m to 129.00m	1	9.00	0.35 + 0.60 / 2			0.30	1.28	
						Present Qty		**745.50**	**Cum**

Assistant Executive Engineer
Road Infrastructure (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Executive Engineer
Nagar, Sub-division,
BBMP, Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 06-01-2021

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
10	Construction of **granular sub-base** Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.						
	2ND BILL						
	Tata Nagara						
	Manjunatha Kids Clinic Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.30 + 5.60)/2	0.15	26.78	
	Ch:30.00m to 60.00m	1	30.00	(5.60 + 4.60)/2	0.15	22.95	
	Ch:60.00m to 90.00m	1	30.00	(4.60 + 5.30)/2	0.15	22.28	
	Ch:90.00m to 105.50m	1	15.50	(5.30 + 5.10)/2	0.15	12.09	
	Amco Layout						
	K M Narayanappa house Road						
	Ch:0.00m to 30.00m	1	30.00	(0.50 + 0.70)/2	0.175	3.15	
	Ch:30.00m to 60.00m	1	30.00	(0.70 + 0.80)/2	0.175	3.94	
	Ch:60.00m to 90.00m	1	30.00	(0.80 + 0.60)/2	0.175	3.68	
	Ch:90.00m to 103.50m	1	13.50	(0.60 + 0.50)/2	0.175	1.30	
	Venkateshwara house road						
	Ch:0.00m to 30.00m	1	30.00	(0.90 + 0.60)/2	0.175	3.94	
	Ch:30.00m to 60.00m	1	30.00	(0.60 + 0.70)/2	0.175	3.41	
	Ch:60.00m to 90.00m	1	30.00	(0.70 + 0.80)/2	0.175	3.94	

Executive Engineer
Nagar, Sub-division,
L, BBMP, Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Asst. Exec. Engineer

Scanned by CamScanner

Item	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:90.00m to 98.70m	1	8.70	(0.80 + 0.70) / 2	0.175	1.14	
	NTI Layout						
	Vinayaka house Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.10 + 7.10) / 2	0.15	29.70	
	Ch:30.00m to 60.00m	1	30.00	(7.10 + 7.00) / 2	0.15	31.73	
	Ch:60.00m to 90.00m	1	30.00	(7.00 + 7.10) / 2	0.15	31.73	
	Ch:90.00m to 120.00m	1	30.00	(7.10 + 7.30) / 2	0.15	32.40	
	Ch:120.00m to 150.00m	1	30.00	(7.30 + 6.80) / 2	0.15	31.73	
	Ch:150.00m to 171.40m	1	21.40	(6.80 + 6.10) / 2	0.15	20.70	
	Shanthi Nivas Road						
	Ch:0.00m to 30.00m	1	30.00	(1.00 + 1.20) / 2	0.175	5.78	
	Rajeev Gandhi Nagara						
	SLN Annugraha House road						
	Ch:0.00m to 30.00m	1	30.00	(0.70 + 0.80) / 2	0.175	3.94	
	Ch:30.00m to 60.00m	1	30.00	(0.80 + 0.75) / 2	0.175	4.07	
	Ch:60.00m to 90.00m	1	30.00	(0.75 + 0.80) / 2	0.175	4.07	
	Ch:90.00m to 120.00m	1	30.00	(0.80 + 0.75) / 2	0.175	4.07	
	Ch:120.00m to 150.00m	1	30.00	(0.75 + 0.90) / 2	0.175	4.33	
	Ch:150.00m to 180.00m	1	30.00	(0.90 + 0.90) / 2	0.175	4.73	
	Ch:180.00m to 209.90m	1	29.90	(0.90 + 1.30) / 2	0.175	5.76	
	Vasudha Heights Appartment						
	Ch:0.00m to 30.00m	1	30.00	(0.60 + 0.80) / 2	0.15	3.15	
	Ch:30.00m to 60.00m	1	30.00	(0.80 + 0.50) / 2	0.15	2.93	

SILICON CONSULTING ENGINEERS
Consultant

Executive Engineer
agar, Sub-division,
BBMP, Bangalore

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 92.

Asst. Exec. Engineer

Scanned by CamScanner

em	Discription of Item	No	Length	Breadth			Depth	Qty	Unit
	Ch:60.00m to 90.00m	1	30.00	0.50	+	0.35	0.15	1.91	
				2					
	Ch:90.00m to 120.00m	1	30.00	0.35	+	0.35	0.15	1.58	
				2					
	Ch:120.00m to 129.00m	1	9.00	0.35	+	0.60	0.15	0.64	
				2					
							Present Qty	**333.50**	**Cum**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS
Consultants

Asst. Engineer

Asst. Exec. Engineer

Executive Engineer,
Nagar, Sub-division,
BBMP, Bangalore

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 13-01-2021

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.						
	2ND BILL						
	Tata Nagara						
	Manjunatha Kids Clinic Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.30 + 5.60)/2	0.225	40.16	
	Ch:30.00m to 60.00m	1	30.00	(5.60 + 4.60)/2	0.225	34.43	
	Ch:60.00m to 90.00m	1	30.00	(4.60 + 5.30)/2	0.225	33.41	
	Ch:90.00m to 105.50m	1	15.50	(5.30 + 5.10)/2	0.225	18.14	
	Amco Layout						
	K M Narayanappa house Road						
	Ch:0.00m to 30.00m	1	30.00	(0.50 + 0.70)/2	0.225	4.05	
	Ch:30.00m to 60.00m	1	30.00	(0.70 + 0.80)/2	0.225	5.06	
	Ch:60.00m to 90.00m	1	30.00	(0.80 + 0.60)/2	0.225	4.73	
	Ch:90.00m to 103.50m	1	13.50	(0.60 + 0.50)/2	0.225	1.67	
	Venkateshwara house road						
	Ch:0.00m to 30.00m	1	30.00	(0.90 + 0.60)/2	0.225	5.06	
	Ch:30.00m to 60.00m	1	30.00	(0.60 + 0.70)/2	0.225	4.39	
	Ch:60.00m to 90.00m	1	30.00	(0.70 + 0.80)/2	0.225	5.06	
	Ch:90.00m to 98.70m	1	8.70	(0.80 + 0.70)/2	0.225	1.47	
	NTI Layout						

SILICON CONSULTING ENGINEERS Consultant

Executive Engineer, Nagar, Sub-division, , BBMP, Bangalore

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bangaluru

Asst. Exec. Engineer

Scanned by CamScanner

Item	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Vinayaka house Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.10 + 7.10)/2	0.225	44.55	
	Ch:30.00m to 60.00m	1	30.00	(7.10 + 7.00)/2	0.225	47.59	
	Ch:60.00m to 90.00m	1	30.00	(7.00 + 7.10)/2	0.225	47.59	
	Ch:90.00m to 120.00m	1	30.00	(7.10 + 7.30)/2	0.225	48.60	
	Ch:120.00m to 150.00m	1	30.00	(7.30 + 6.80)/2	0.225	47.59	
	Ch:150.00m to 171.40m	1	21.40	(6.80 + 6.10)/2	0.225	31.06	
	Shanthi Nivas Road						
	Ch:0.00m to 30.00m	1	30.00	(1.00 + 1.20)/2	0.225	7.43	
	Rajeev Gandhi Nagara						
	SLN Annugraha House road						
	Ch:0.00m to 30.00m	1	30.00	(0.70 + 0.80)/2	0.200	4.50	
	Ch:30.00m to 60.00m	1	30.00	(0.80 + 0.75)/2	0.200	4.65	
	Ch:60.00m to 90.00m	1	30.00	(0.75 + 0.80)/2	0.200	4.65	
	Ch:90.00m to 120.00m	1	30.00	(0.80 + 0.75)/2	0.200	4.65	
	Ch:120.00m to 150.00m	1	30.00	(0.75 + 0.90)/2	0.200	4.95	
	Ch:150.00m to 180.00m	1	30.00	(0.90 + 0.90)/2	0.200	5.40	
	Ch:180.00m to 209.90m	1	29.90	(0.90 + 1.30)/2	0.200	6.58	
	Vasudha Heights Appartment						
	Ch:0.00m to 30.00m	1	30.00	(0.60 + 0.80)/2	0.225	4.73	
	Ch:30.00m to 60.00m	1	30.00	(0.80 + 0.50)/2	0.225	4.39	
	Ch:60.00m to 90.00m	1	30.00	(0.50 + 0.35)/2	0.225	2.87	

Contractor

Executive Engineer, Nagar, Sub-division, -, BBMP, Bangalore

SILICON CONSULTING ENGINEERS Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Asst. Exec. Engineer

Scanned by CamScanner

Item	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:90.00m to 120.00m	1	30.00	(0.35 + 0.35) / 2	0.225	2.36	
	Ch:120.00m to 129.00m	1	9.00	(0.35 + 0.60) / 2	0.225	0.96	
					Present Qty	**482.70**	**Cum**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Brihat Bengaluru Mahanagara Palike
Bengaluru - 92.

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Asst. Exec. Engineer

Executive Engineer
Nagar, Sub-division,
BBMP, Bangalore

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 01-02-2023

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
12	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.						
	2ND BILL						
	Tata Nagara						
	Manjunatha Kids Clinic Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.30 + 5.60) / 2		178.50	
	Ch:30.00m to 60.00m	1	30.00	(5.60 + 4.60) / 2		153.00	
	Ch:60.00m to 90.00m	1	30.00	(4.60 + 5.30) / 2		148.50	
	Ch:90.00m to 105.50m	1	15.50	(5.30 + 5.10) / 2		80.60	
	Amco Layout						
	K M Narayanappa house Road						
	Ch:0.00m to 30.00m	1	30.00	(0.50 + 0.70) / 2		18.00	
	Ch:30.00m to 60.00m	1	30.00	(0.70 + 0.80) / 2		22.50	
	Ch:60.00m to 90.00m	1	30.00	(0.80 + 0.60) / 2		21.00	
	Ch:90.00m to 103.50m	1	13.50	(0.60 + 0.50) / 2		7.43	
	Venkateshwara house road						
	Ch:0.00m to 30.00m	1	30.00	(0.90 + 0.60) / 2		22.50	
	Ch:30.00m to 60.00m	1	30.00	(0.60 + 0.70) / 2		19.50	
	Ch:60.00m to 90.00m	1	30.00	(0.70 + 0.80) / 2		22.50	
	Ch:90.00m to 98.70m	1	8.70	(0.80 + 0.70) / 2		6.53	
	NTI Layout						

Contractor

Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 92.

Asst. Exec. Engineer

Executive Engineer
Nagar, Sub-division
DL, BBMP, Bangalore

Scanned by CamScanner

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Vinayaka house Rd						
Ch:0.00m to 30.00m	1	30.00	(6.10 + 7.10) / 2		198.00	
Ch:30.00m to 60.00m	1	30.00	(7.10 + 7.00) / 2		211.50	
Ch:60.00m to 90.00m	1	30.00	(7.00 + 7.10) / 2		211.50	
Ch:90.00m to 120.00m	1	30.00	(7.10 + 7.30) / 2		216.00	
Ch:120.00m to 150.00m	1	30.00	(7.30 + 6.80) / 2		211.50	
Ch:150.00m to 171.40m	1	21.40	(6.80 + 6.10) / 2		138.03	
Shanthi Nivas Road						
Ch:0.00m to 30.00m	1	30.00	(1.00 + 1.20) / 2		33.00	
Rajeev Gandhi Nagara						
SLN Annugraha House road						
Ch:0.00m to 30.00m	1	30.00	(0.70 + 0.60) / 2		19.50	
Ch:30.00m to 60.00m	1	30.00	(0.60 + 0.50) / 2		16.50	
Ch:60.00m to 90.00m	1	30.00	(0.50 + 0.80) / 2		19.50	
Ch:90.00m to 120.00m	1	30.00	(0.80 + 0.70) / 2		22.50	
Ch:120.00m to 150.00m	1	30.00	(0.70 + 0.90) / 2		24.00	
Ch:150.00m to 180.00m	1	30.00	(0.90 + 0.90) / 2		27.00	
Ch:180.00m to 209.90m	1	29.90	(0.90 + 1.30) / 2		32.89	
Vasudha Heights Appartment						
Ch:0.00m to 30.00m	1	30.00	(0.60 + 0.80) / 2		21.00	
Ch:30.00m to 60.00m	1	30.00	(0.80 + 0.50) / 2		19.50	
Ch:60.00m to 90.00m	1	30.00	(0.50 + 0.35) / 2		12.75	
Ch:90.00m to 120.00m	1	30.00	(0.35 + 0.35) / 2		10.50	

Contractive Engineer
Nagar, Sub-division
DL, BBMP, Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure (Yelahanka Division)
Bruhat Bangalore Mahanagara Palike

Asst. Exec. Engineer

Scanned by CamScanner

Item No	Discription of Item	No	Length	Breadth			Depth	Qty	Unit
	Ch.120.00m to 129.00m	1	9.00	0.35	+	0.60		4.28	
				2					
							Present Qty	**2150.00**	**Sqm**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bangaluru - 92.

Executive Engineer
Nagar, Sub-division,
., BBMP, Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 02-02-2022

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
13	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge						
	2ND BILL						
	BC Area					4647.16	
	WMM Area					2150.00	
					Present Qty	**2497.16**	**Sqm**
					Limited To	**1373.99**	**Sqm**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS
Consultant

Contractor

Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 05-07-2024

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
14	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.						
	2ND BILL						
	Tata Nagara						
	Manjunatha Kids Clinic Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.30 + 5.60)/2		178.50	
	Ch:30.00m to 60.00m	1	30.00	(5.60 + 4.60)/2		153.00	
	Ch:60.00m to 90.00m	1	30.00	(4.60 + 5.30)/2		148.50	
	Ch:90.00m to 105.50m	1	15.50	(5.30 + 5.10)/2		80.60	
	Amco Layout						
	K M Narayanappa house Road						
	Ch:0.00m to 30.00m	1	30.00	(5.70 + 4.20)/2		148.50	
	Ch:30.00m to 60.00m	1	30.00	(4.20 + 4.00)/2		123.00	
	Ch:60.00m to 90.00m	1	30.00	(4.00 + 5.80)/2		147.00	
	Ch:90.00m to 103.50m	1	13.50	(5.80 + 5.30)/2		74.93	
	Venkateshwara house road						
	Ch:0.00m to 30.00m	1	30.00	(6.10 + 4.60)/2		160.50	
	Ch:30.00m to 60.00m	1	30.00	(4.60 + 4.10)/2		130.50	
	Ch:60.00m to 90.00m	1	30.00	(4.10 + 4.60)/2		130.50	
	Ch:90.00m to 98.70m	1	8.70	(4.60 + 4.10)/2		37.85	

Contractor's Representative Engineer, Nagar, Sub-division, DL, BBMP, Bangalore

SILICON CONSULTING ENGINEERS Consultants

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike

Asst. Exec. Engineer

Scanned by CamScanner

Description of Item	No	Length	Breadth	Depth	Qty	Unit
NTI Layout						
Vinayaka house Rd						
Ch:0.00m to 30.00m	1	30.00	(6.10 + 7.10) / 2		198.00	
Ch:30.00m to 60.00m	1	30.00	(7.10 + 7.00) / 2		211.50	
Ch:60.00m to 90.00m	1	30.00	(7.00 + 7.10) / 2		211.50	
Ch:90.00m to 120.00m	1	30.00	(7.10 + 7.30) / 2		216.00	
Ch:120.00m to 150.00m	1	30.00	(7.30 + 6.80) / 2		211.50	
Ch:150.00m to 171.40m	1	21.40	(6.80 + 6.10) / 2		138.03	
Shanthi Nivas Road						
Ch:0.00m to 30.00m	1	30.00	(10.15 + 8.40) / 2		278.25	
Rajeev Gandhi Nagara						
SLN Annugraha House road						
Ch:0.00m to 30.00m	1	30.00	(5.10 + 4.10) / 2		138.00	
Ch:30.00m to 60.00m	1	30.00	(4.10 + 4.30) / 2		126.00	
Ch:60.00m to 90.00m	1	30.00	(4.30 + 4.20) / 2		127.50	
Ch:90.00m to 120.00m	1	30.00	(4.20 + 3.80) / 2		120.00	
Ch:120.00m to 150.00m	1	30.00	(3.80 + 4.10) / 2		118.50	
Ch:150.00m to 180.00m	1	30.00	(4.10 + 4.60) / 2		130.50	
Ch:180.00m to 209.90m	1	29.90	(4.60 + 5.30) / 2		148.01	
Vasudha Heights Appartment						
Ch:0.00m to 30.00m	1	30.00	(6.10 + 6.40) / 2		187.50	
Ch:30.00m to 60.00m	1	30.00	(6.40 + 5.70) / 2		181.50	
Ch:60.00m to 90.00m	1	30.00	(5.70 + 5.40) / 2		166.50	

Contractor

Executive Engineer
Nagar, Sub-division
DL, BBMP, Bangalore

CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palika
Bengaluru - 92.

Asst. Exec. Engineer

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	Description of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch.90.00m to 120.00m	1	30.00	5.40 + 6.00 / 2		171.00	
	Ch.120.00m to 129.00m	1	9.00	6.00 + 6.00 / 2		54.00	
					Present Qty	4647.16	Sqm

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Measurement Recorded On: 6.5.2024

Detailed Measurements

Item No.	Description of Item	No	Length	Breadth	Depth	Qty	Unit
15	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen.						
	2ND BILL						
	Tata Nagara						
	Manjunatha Kids Clinic Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.30 + 5.60)/2	0.05	8.93	
	Ch:30.00m to 60.00m	1	30.00	(5.60 + 4.60)/2	0.05	7.65	
	Ch:60.00m to 90.00m	1	30.00	(4.60 + 5.30)/2	0.05	7.43	
	Ch:90.00m to 105.50m	1	15.50	(5.30 + 5.10)/2	0.05	4.03	
	Amco Layout						
	K M Narayanappa house Road						
	Ch:0.00m to 30.00m	1	30.00	(0.50 + 0.70)/2	0.05	0.90	
	Ch:30.00m to 60.00m	1	30.00	(0.70 + 0.80)/2	0.05	1.13	
	Ch:60.00m to 90.00m	1	30.00	(0.80 + 0.60)/2	0.05	1.05	
	Ch:90.00m to 103.50m	1	13.50	(0.60 + 0.50)/2	0.05	0.37	
	Venkateshwara house road						
	Ch:0.00m to 30.00m	1	30.00	(6.10 + 4.60)/2	0.05	8.03	
	Ch:30.00m to 60.00m	1	30.00	(4.60 + 4.10)/2	0.05	6.53	
	Ch:60.00m to 90.00m	1	30.00	(4.10 + 4.60)/2	0.05	6.53	

Executive Engineer
Nagar, Sub-division
L, BBMP, Bangalore

Contractor

SUCON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru

Asst. Exec. Engineer

Scanned by CamScanner

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:90.00m to 98.70m	1	8.70	4.60 + 4.10 / 2	0.05	1.89	
	NTI Layout						
	Vinayaka house Rd						
	Ch:0.00m to 30.00m	1	30.00	6.10 + 7.10 / 2	0.05	9.90	
	Ch:30.00m to 60.00m	1	30.00	7.10 + 7.00 / 2	0.05	10.58	
	Ch:60.00m to 90.00m	1	30.00	7.00 + 7.10 / 2	0.05	10.58	
	Ch:90.00m to 120.00m	1	30.00	7.10 + 7.30 / 2	0.05	10.80	
	Ch:120.00m to 150.00m	1	30.00	7.30 + 6.80 / 2	0.05	10.58	
	Ch:150.00m to 171.40m	1	21.40	6.80 + 6.10 / 2	0.05	6.90	
	Shanthi Nivas Road						
	Ch:0.00m to 30.00m	1	30.00	1.00 + 1.20 / 2	0.05	1.65	
	Rajeev Gandhi Nagara						
	SLN Annugraha House road						
	Ch:0.00m to 30.00m	1	30.00	0.70 + 0.80 / 2	0.05	1.13	
	Ch:30.00m to 60.00m	1	30.00	0.80 + 0.75 / 2	0.05	1.16	
	Ch:60.00m to 90.00m	1	30.00	0.75 + 0.80 / 2	0.05	1.16	
	Ch:90.00m to 120.00m	1	30.00	0.80 + 0.75 / 2	0.05	1.16	
	Ch:120.00m to 150.00m	1	30.00	0.75 + 0.90 / 2	0.05	1.24	
	Ch:150.00m to 180.00m	1	30.00	0.90 + 0.90 / 2	0.05	1.35	
	Ch:180.00m to 209.90m	1	29.90	0.90 + 1.30 / 2	0.05	1.64	
	Vasudha Heights Appartment						
	Ch:0.00m to 30.00m	1	30.00	0.60 + 0.80 / 2	0.05	1.05	
	Ch:30.00m to 60.00m	1	30.00	0.80 + 0.50 / 2	0.05	0.98	

CON CONSULTING ENGINEERS

Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike

Asst. Exec. Engineer

Executive Engineer
Nagar, Sub-division,
L, BBMP, Bangalore

Scanned by CamScanner

Item No	Discription of Item	No	Length	Breadth			Depth	Qty	Unit
	Ch:60.00m to 90.00m	1	30.00	0.50	+	0.35	0.05	0.64	
				2					
	Ch:90.00m to 120.00m	1	30.00	0.35	+	0.35	0.05	0.53	
				2					
	Ch:120.00m to 129.00m	1	9.00	0.35	+	0.60	0.05	0.21	
				2					
							Present Qty	**127.67**	**Cum**

Assistant Executive Engineer
Road Infrastructure (Vibhaga Vikram)
Bridge Bengaluru Mahanagara Palike
Bengaluru - 02.

Asst. Executive Engineer
UR. Nagar, Sub-division,
BRIDL, BBMP, Bangalore

CON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

MEASUREMENT SHEETS

"SECOND AND Final BILL"

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Removing and refixing stone slabs of drains and pointing in CM (1:3) with all lead and lift and as per the direction of Engineer in charge								
Vide Premeasurement page no.					618.92			
				Present Qty	**618.92**	**Sqm**	**111.30**	**68885.24**
KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete								
Vide Premeasurement page no.					215.17			
				Present Qty	**215.17**	**Cum**	**214.50**	**46154.52**
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete with all lead and lift and as per the direction of Engineer in charge								
Vide Premeasurement page no.					60.56			
				Present Qty	**60.56**	**Sqm**	**742.00**	**44931.81**
KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and								
Vide Premeasurement page no.					745.50			
				Present Qty	**745.50**	**Cum**	**57.03**	**42514.52**
Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power								
Vide Premeasurement page no.					333.50			
				Present Qty	**333.50**	**Cum**	**1855.00**	**618633.69**
KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-								
Vide Premeasurement page no.					482.70			
				Present Qty	**482.70**	**Cum**	**2001.28**	**966021.11**
KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical								
Vide Premeasurement page no.					2150.00			
				Present Qty	**2150.00**	**Sqm**	**29.68**	**63811.85**

Assistant Executive Engineer
Road Infrastructure (Mahadeva Division)

Scanned by CamScanner

Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Removing and refixing stone slabs of drains and pointing in CM (1:3) with all lead and lift and as per the direction of Engineer in charge								
Vide Premeasurement page no.					618.92			
					Present Qty	**618.92**	**Sqm**	**111.30**	**68885.24**
KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete								
Vide Premeasurement page no.					215.17			
					Present Qty	**215.17**	**Cum**	**214.50**	**46154.52**
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete with all lead and lift and as per the direction of Engineer in charge								
Vide Premeasurement page no.					60.56			
					Present Qty	**60.56**	**Sqm**	**742.00**	**44931.81**
KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and								
Vide Premeasurement page no.					745.50			
					Present Qty	**745.50**	**Cum**	**57.03**	**42514.52**
Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power								
Vide Premeasurement page no.					333.50			
					Present Qty	**333.50**	**Cum**	**1855.00**	**618633.69**
KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-								
Vide Premeasurement page no.					482.70			
					Present Qty	**482.70**	**Cum**	**2001.28**	**966021.11**
KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical								
Vide Premeasurement page no.					2150.00			
					Present Qty	**2150.00**	**Sqm**	**29.68**	**63811.85**

Assistant Executive Engineer
Road Infrastructure (Yelahanka Division)

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM								
Vide Premeasurement page no.					1373.99			
				Present Qty	**1373.99**	**Sqm**	**5.30**	**7282.15**
KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road								
Vide Premeasurement page no.					4647.16			
				Present Qty	**4647.16**	**Sqm**	**12.72**	**59111.81**
KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the								
Vide Premeasurement page no.					127.67			
				Present Qty	**127.67**	**Cum**	**6858.20**	**875557.25**

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore
Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.
Asst. Executive Engineer,

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli								
Detailed Measurements								
Measurement Recorded On: 13-02-2021								
Sl No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge with all lead and lift and as per the direction of Engineer in charge								
	2ND BILL								
	Tatanagar								
	Missing/ Damaged slabs	10	1.20	0.60		7.20			
						Present Qty	**7.20**	**Sqm**	**3640.00**	**26208.00**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Contractor

Executive Engineer
Nagar, Sub-division,
DL, BBMP, Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Asst. Exec. Engineer

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 18-03-2021

Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic).								
2ND BILL								
Tata Nagara								
Manjunatha Kids Clinic Rd								
Ch:0.00m to 30.00m	1	30.00	(6.30 + 5.60)/2	0.03	5.36			
Ch:30.00m to 60.00m	1	30.00	(5.60 + 4.60)/2	0.03	4.59			
Ch:60.00m to 90.00m	1	30.00	(4.60 + 5.30)/2	0.03	4.46			
Ch:90.00m to 105.50m	1	15.50	(5.30 + 5.10)/2	0.03	2.42			
Amco Layout								
K M Narayanappa house Road								
Ch:0.00m to 30.00m	1	30.00	(5.70 + 4.20)/2	0.03	4.46			
Ch:30.00m to 60.00m	1	30.00	(4.20 + 4.00)/2	0.03	3.69			
Ch:60.00m to 90.00m	1	30.00	(4.00 + 5.80)/2	0.03	4.41			
Ch:90.00m to 103.50m	1	13.50	(5.80 + 5.30)/2	0.03	2.25			
Venkateshwara house road								
Ch:0.00m to 30.00m	1	30.00	(6.10 + 4.60)/2	0.03	4.82			
Ch:30.00m to 60.00m	1	30.00	(4.60 + 4.10)/2	0.03	3.92			

Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Executive Engineer
Consultant
ar, Sub-division,
BMP, Bangalore

Asst. Engineer

Asst. Exec. Engineer

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n	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:60.00m to 90.00m	1	30.00	(4.10 + 4.60)/2	0.03	3.92			
	Ch:90.00m to 98.70m	1	8.70	(4.60 + 4.10)/2	0.03	1.14			
	NTI Layout								
	Vinayaka house Rd								
	Ch:0.00m to 30.00m	1	30.00	(6.10 + 7.10)/2	0.04	7.92			
	Ch:30.00m to 60.00m	1	30.00	(7.10 + 7.00)/2	0.04	8.46			
	Ch:60.00m to 90.00m	1	30.00	(7.00 + 7.10)/2	0.03	6.35			
	Ch:90.00m to 120.00m	1	30.00	(7.10 + 7.30)/2	0.04	8.64			
	Ch:120.00m to 150.00m	1	30.00	(7.30 + 6.80)/2	0.04	8.46			
	Ch:150.00m to 171.40m	1	21.40	(6.80 + 6.10)/2	0.04	5.52			
	Shanthi Nivas Road								
	Ch:0.00m to 30.00m	1	30.00	(10.15 + 8.40)/2	0.03	8.35			
	Rajeev Gandhi Nagara								
	SLN Annugraha House road								
	Ch:0.00m to 30.00m	1	30.00	(5.10 + 4.10)/2	0.04	5.52			
	Ch:30.00m to 60.00m	1	30.00	(4.10 + 4.30)/2	0.04	5.04			
	Ch:60.00m to 90.00m	1	30.00	(4.30 + 4.20)/2	0.04	5.10			
	Ch:90.00m to 120.00m	1	30.00	(4.20 + 3.80)/2	0.04	4.80			
	Ch:120.00m to 150.00m	1	30.00	(3.80 + 4.10)/2	0.04	4.74			
	h:150.00m to 180.00m	1	30.00	(4.10 + 4.60)/2	0.04	5.22			
	h:180.00m to 209.90m	1	29.90	(4.60 + 5.30)/2	0.04	5.92			
	asudha Heights ppartment								
	:0.00m to 30.00m	1	30.00	(6.10 + 6.40)/2	0.04	7.50			
	:30.00m to 60.00m	1	30.00	(6:40 + 5.70)/2	0.04	7.26			

Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bhuhat Bengaluru Mahanagara Palike
Bengaluru - 02.

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Asst. Engineer

Asst. Exec. Engineer

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m	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:60.00m to 90.00m	1	30.00	(5.70 + 5.40) / 2	0.04	6.66			
	Ch:90.00m to 120.00m	1	30.00	(5.40 + 6.00) / 2	0.04	6.84			
	Ch:120.00m to 129.00m	1	9.00	(6.00 + 6.00) / 2	0.04	2.16			
					Present Qty	**165.86**	**Cum**	**8049.64**	**1335073.042**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

KCON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Asst. Exec. Engineer

Sub-division,
MP, Bangalore

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 18-02-2021

m o	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications with all lead and lift and as per the direction of Engineer in charge								
	2ND BILL								
	Bhadrappa Layout Mn Road								
	Ch:0.00m to 30.00m	2.5	30.00	0.10		7.50			
	Ch:30.00m to 48.20m	2.5	18.20	0.10		4.55			
	Ch:48.20m to 78.20m	2.5	30.00	0.10		7.50			
	Ch:78.20m to 108.20m	2.5	30.00	0.10		7.50			
	Ch:108.20m to 113.00m	2.5	4.80	0.10		1.20			
	Ch:113.00m to 129.60m	2.5	16.60	0.10		4.15			
	Ch:129.60m to 159.60m	2.5	30.00	0.10		7.50			
	Ch:159.60m to 189.60m	2.5	30.00	0.10		7.50			
	Ch:189.60m to 219.60m	2.5	30.00	0.10		7.50			
	Ch:219.60m to 249.60m	2.5	30.00	0.10		7.50			
	Ch:249.60m to 277.20m	2.5	27.60	0.10		6.90			
	Ch:277.20m to 307.20m	2.5	30.00	0.10		7.50			
	Ch:307.20m to 320.10m	2.5	12.90	0.10		3.23			
	Car Wash Store Road								
	Ch:0.00m to 30.00m	2	30.00	0.10		6.00			
	Ch:30.00m to 60.00m	2	30.00	0.10		6.00			
	Ch:60.00m to 90.00m	2	30.00	0.10		6.00			
	Ch:90.00m to 120.00m	2	30.00	0.10		6.00			
	Ch:120.00m to 150.00m	2	30.00	0.10		6.00			
	Ch:150.00m to 180.00m	2	30.00	0.10		6.00			
	Ch:180.00m to 210.00m	2	30.00	0.10		6.00			
	Ch:210.00m to 219.10m	2	9.10	0.10		1.82			
	Tata Nagara								
	Manjunatha Kids Clinic Rd								
	Ch:0.00m to 30.00m	2	30.00	0.10		6.00			

Executive Engineer, Sub-division, BBMP, Bangalore

CONSULTING ENGINEERS

Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Asst. Exec. Engineer

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Ch:30.00m to 60.00m	2	30.00	0.10		6.00			
Ch:60.00m to 90.00m	2	30.00	0.10		6.00			
Ch:90.00m to 105.50m	2	15.50	0.10		3.10			
Amco Layout								
K M Narayanappa house Road								
Ch:0.00m to 30.00m	2	30.00	0.10		6.00			
Ch:30.00m to 60.00m	2	30.00	0.10		6.00			
Ch:60.00m to 90.00m	2	30.00	0.10		6.00			
Ch:90.00m to 103.50m	2	13.50	0.10		2.70			
Venkateshwara house road								
Ch:0.00m to 30.00m	2	30.00	0.10		6.00			
Ch:30.00m to 60.00m	2	30.00	0.10		6.00			
Ch:60.00m to 90.00m	2	30.00	0.10		6.00			
Ch:90.00m to 98.70m	2	8.70	0.10		1.74			
NTI Layout								
Vinayaka house Rd								
Ch:0.00m to 30.00m	2	30.00	0.10		6.00			
Ch:30.00m to 60.00m	2	30.00	0.10		6.00			
Ch:60.00m to 90.00m	2	30.00	0.10		6.00			
Ch:90.00m to 120.00m	2	30.00	0.10		6.00			
Ch:120.00m to 150.00m	2	30.00	0.10		6.00			
Ch:150.00m to 171.40m	2	21.40	0.10		4.28			
Shanthi Nivas Road								
Ch:0.00m to 30.00m	2	30.00	0.10		6.00			
Rajeev Gandhi Nagara								
SLN Annugraha House road								
Ch:0.00m to 30.00m	2	30.00	0.10		6.00			
Ch:30.00m to 60.00m	2	30.00	0.10		6.00			
Ch:60.00m to 90.00m	2	30.00	0.10		6.00			
Ch:90.00m to 120.00m	2	30.00	0.10		6.00			
Ch:120.00m to 150.00m	2	30.00	0.10		6.00			
Ch:150.00m to 180.00m	2	30.00	0.10		6.00			
Ch:180.00m to 209.90m	2	29.90	0.10		5.98			
Vasudha Heights Appartment								
Ch:0.00m to 30.00m	2	30.00	0.10		6.00			
Ch:30.00m to 60.00m	2	30.00	0.10		6.00			
Ch:60.00m to 90.00m	2	30.00	0.10		6.00			
Ch:90.00m to 120.00m	2	30.00	0.10		6.00			
Ch:120.00m to 129.00m	2	9.00	0.10		1.80			
Pedestrian Marking								

CONSULTING ENGINEERS Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Asst. Exec. Engineer

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	10	1.40	0.40		5.60			
	10	1.40	0.40		5.60			
				Present Qty	**304.65**	**Sqm**	**454.74**	**138534.27**

Assistant Executive Engineer
Road Infrastructure (Mahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS

Consultant

Asst. Engineer

Asst. Exec. Engineer

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Name of Work: Repair and Improvements to roads and drains and footpaths of Tatanagar Main Road in ward no. 08 Kodigehalli

Detailed Measurements

Measurement Recorded On: 18-02-2021

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
18	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation with all lead and lift and as per the direction of Engineer in charge								
	2ND BILL								
	Bhadrappa Layout Mn Road								
	Ch:0.00m to 30.00m	3	4.00			12.00			
	Ch:30.00m to 48.20m	3	2.00			6.00			
	Ch:48.20m to 78.20m	3	4.00			12.00			
	Ch:78.20m to 108.20m	3	4.00			12.00			
	Ch:108.20m to 113.00m	3	1.00			3.00			
	Ch:113.00m to 129.60m	3	2.00			6.00			
	Ch:129.60m to 159.60m	3	4.00			12.00			
	Ch:159.60m to 189.60m	3	4.00			12.00			
	Ch:189.60m to 219.60m	3	4.00			12.00			
	Ch:219.60m to 249.60m	3	4.00			12.00			
	Ch:249.60m to 277.20m	3	3.00			9.00			
	Ch:277.20m to 307.20m	3	3.00			9.00			
	Ch:307.20m to 320.10m	3	1.00			3.00			
					Present Qty	**120.00**	**Nos**	**357.22**	**42866.40**
								Total	**4335585.65**
								4% KRIDL Charges	**173423.43**
								12% GST Charges	**520270.28**
								Grand Total	**5029279.36**

ON CONSULTING ENGINEERS

Executive Engineer
Consultant
Sub-division
BMP, Bangalore

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike

Asst. Exec. Engineer

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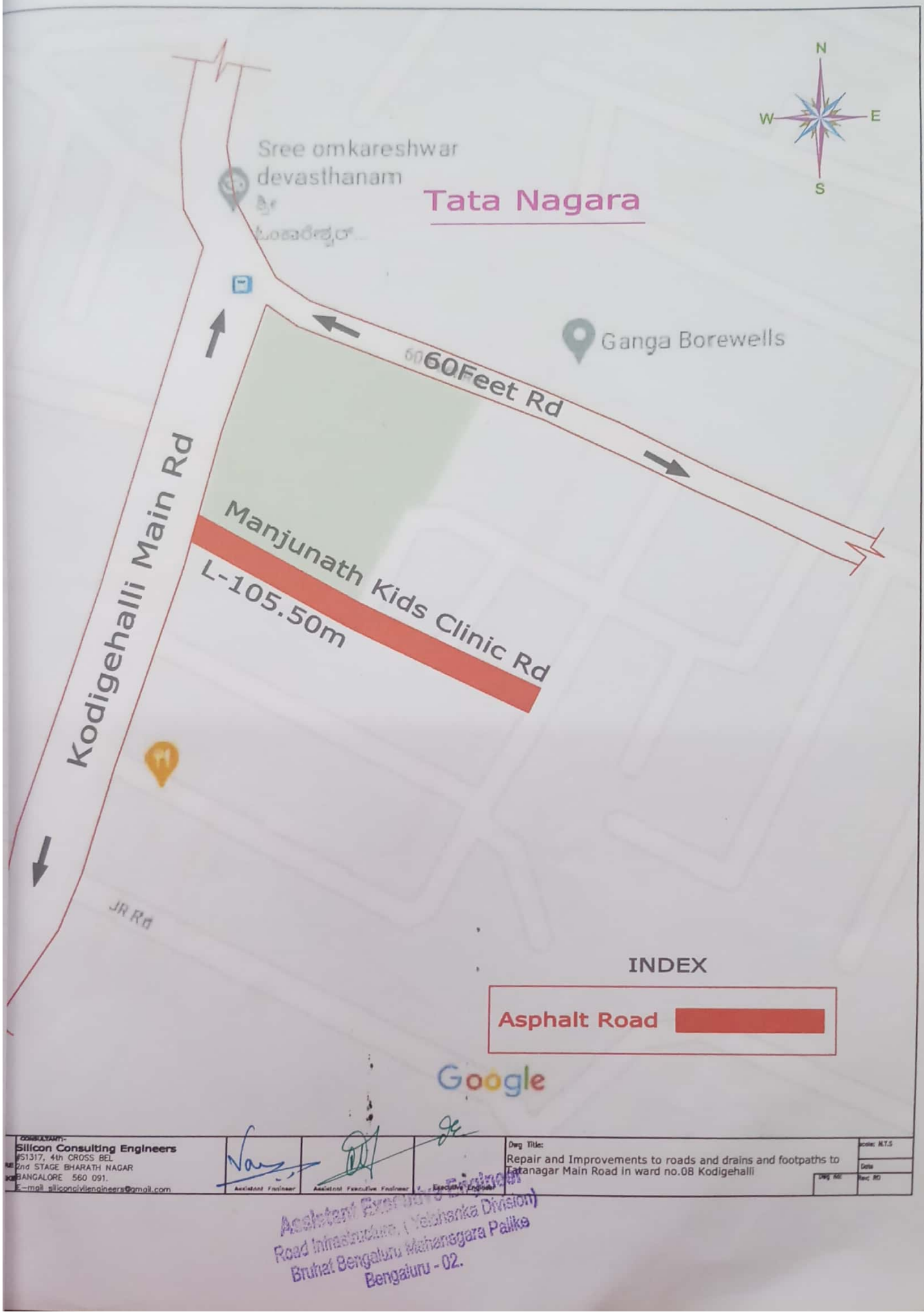

Silicon Consulting Engineers
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2nd STAGE BHARATH NAGAR
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E-mail: siliconcivilengineers@gmail.com

Assistant Engineer | Assistant Executive Engineer | Executive Engineer

Dwg Title:
Repair and Improvements to roads and drains and footpaths to Tatanagar Main Road in ward no.08 Kodigehalli

Scale: N.T.S
Date
Dwg No:
Rev No

Assistant Executive Engineer
Road Infrastructure (Vibhanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

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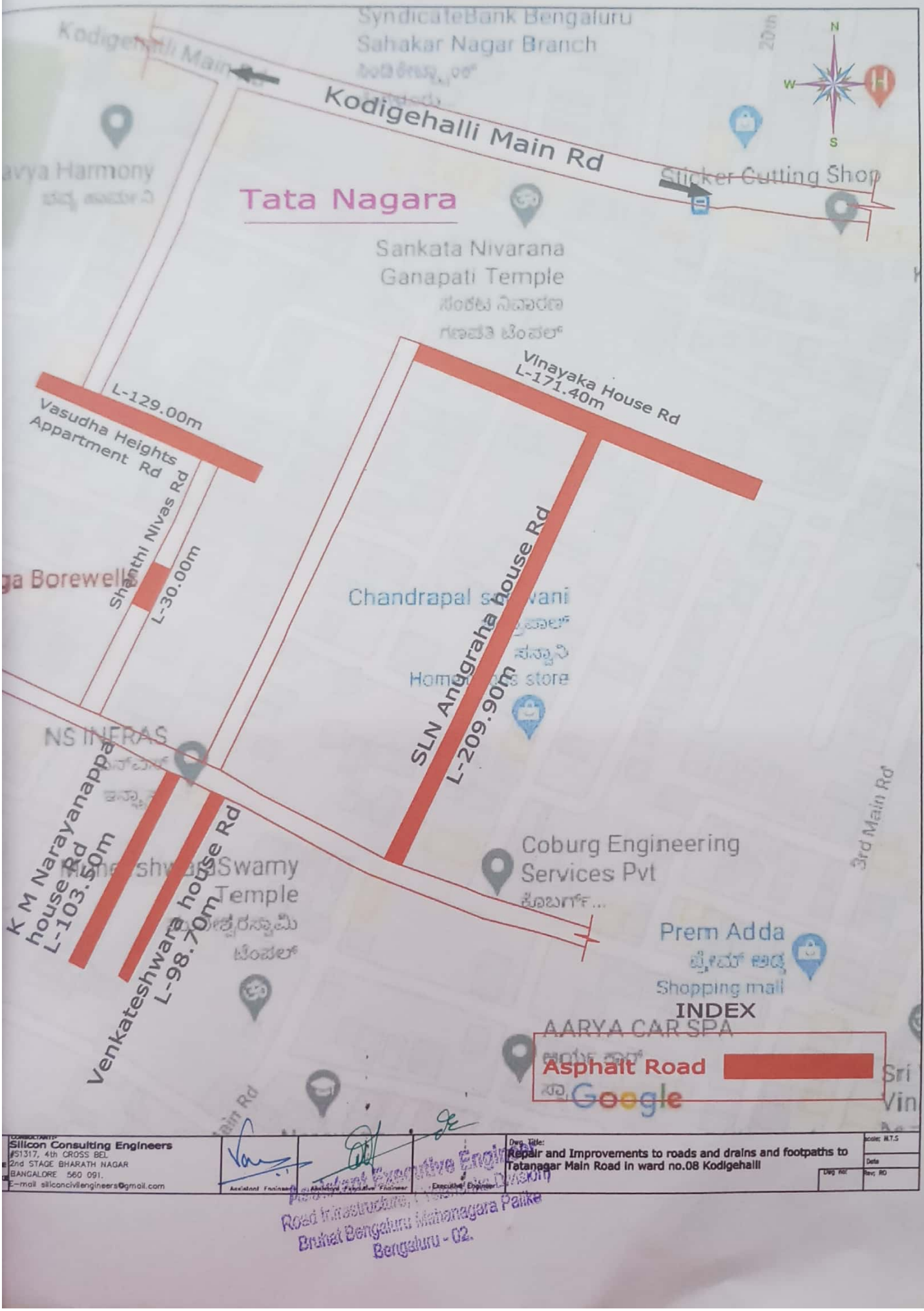

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